

Application

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 350AST shall provide protection where a potential health hazard does not exist. Ideal for use where Lead-Free* valves are required.

Standard Compliance (Horizontal and Vertical)

- ASSE® Listed 1015
 - AWWA Compliant C510 (with gates only), and C550
 - UL® Classified
 - C-UL® Classified
 - FM® Approved
 - CSA® Certified
 - IAPMO® Listed
 - Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (2 1/2" - 6")
 - NSF® Listed-Standard 61, Annex G*
 - Certified to NSF/ANSI 372* by IAPMO R&T
- *(0.25% max. weighted average lead content)

Materials

| | |
|-----------------------|---|
| Main valve body | 304L Stainless steel |
| Access covers | 304L Stainless steel |
| Internals | Stainless steel, 300 Series NORYL™, NSF Listed |
| Fasteners and springs | Stainless Steel, 300 Series |
| Seal ring | EPDM (FDA approved) |
| O-ring | Buna Nitrile (FDA approved) |

Features

| | |
|---|----------------------|
| Sizes: 2 1/2", 3", 4", 6", 8", 10" | |
| Maximum working water pressure | 175 PSI |
| Maximum working water temperature | 140°F |
| Hydrostatic test pressure | 350 PSI |
| End connections (Grooved for steel pipe) | AWWA C606 |
| (Flanged) | ANSI B16.1 Class 125 |



Certified to NSF/ANSI 61-G



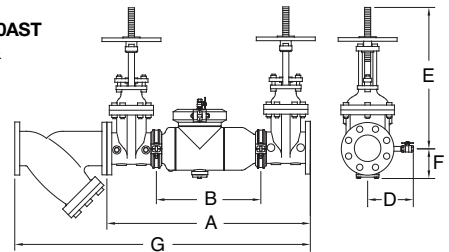
Options (Suffixes can be combined)

- with flanged end NRS gate valves (standard)
- FSC - with epoxy coated wye type strainer (flanged only)
- G - with grooved end NRS gate valves
- GF - with grooved inlet gate connection and flanged outlet gate connection
- FG - with flanged inlet gate connection and grooved outlet gate connection
- OSY - flanged end OS&Y gate valves
- OSYG - with grooved end OS&Y gate valves
- PI - with Post Indicator Gate Valves
- BG - with grooved end butterfly valves with integral supervisory switches (2-1/2" - 6")
- BF - with flanged end butterfly valves with integral supervisory switches (2-1/2" - 6")
- BGVIC - with grooved end butterfly valves with integral supervisory switches (8" - 10")

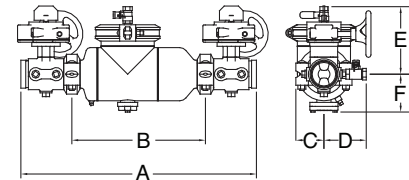
Accessories

- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)

MODEL 350AST with OSY & FSC option



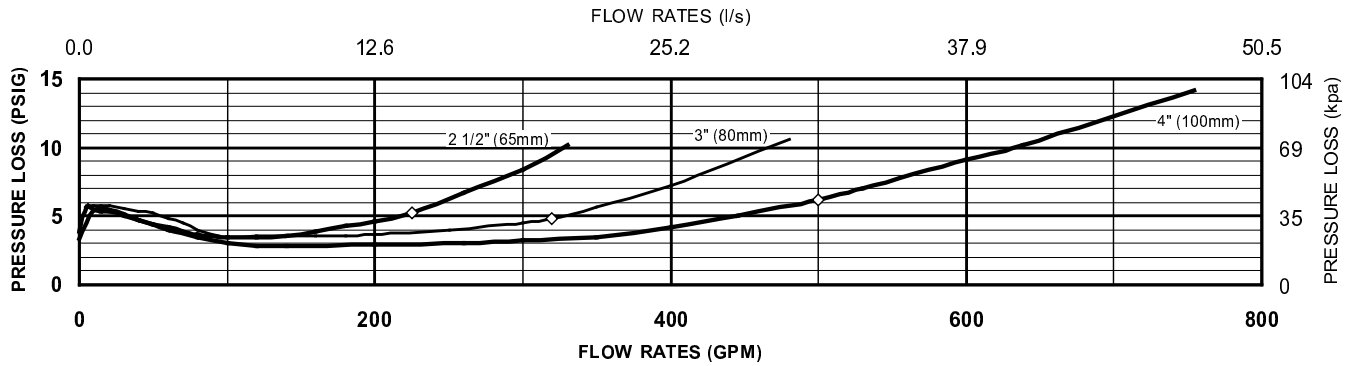
MODEL 350AST with BG option



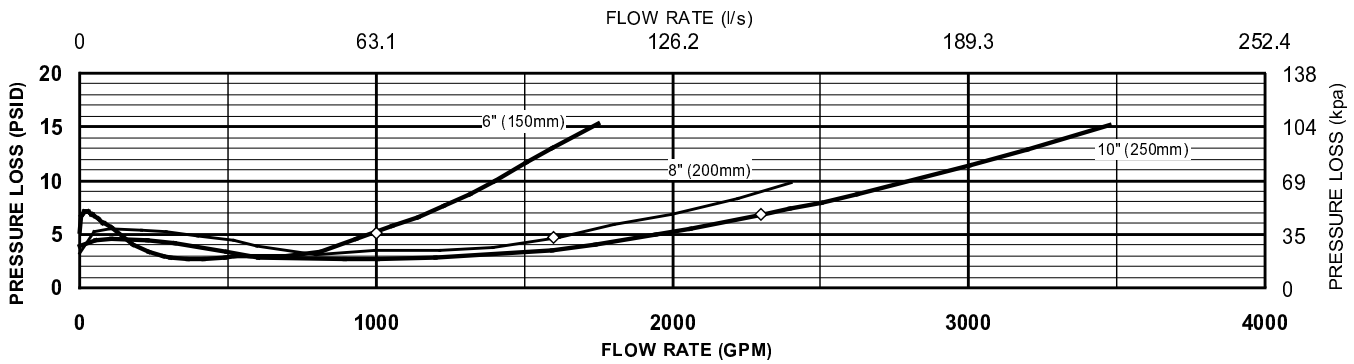
| MODEL 350AST SIZE | WEIGHT | | | | | | | | | | | | | | |
|-------------------|---------------|-----|----------------------|-----|-----------------------|-----|----------------------|-----|-----------------------|-----|-----------------------------|-----|-----------------------------|-----|-----|
| | WITHOUT GATES | | WITH NRS GATES (GXF) | | WITH OS&Y GATES (GXF) | | WITH NRS GATES (GXG) | | WITH OS&Y GATES (GXG) | | WITH BUTTERFLY VALVES (GXG) | | WITH BUTTERFLY VALVES (GXF) | | |
| | in. | mm | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | |
| 2 1/2 | 65 | 33 | 15 | 94 | 43 | 112 | 51 | 86 | 39 | 104 | 47 | 79 | 36 | 89 | 40 |
| 3 | 80 | 34 | 15.4 | 112 | 51 | 130 | 60 | 102 | 46 | 120 | 54 | 83 | 38 | 96 | 44 |
| 4 | 100 | 35 | 15.8 | 168 | 76 | 204 | 93 | 142 | 64 | 184 | 83 | 87 | 39 | 109 | 50 |
| 6 | 150 | 63 | 29 | 280 | 127 | 338 | 153 | 250 | 114 | 308 | 140 | 150 | 68 | 180 | 82 |
| 8 | 200 | 177 | 80 | 565 | 256 | 647 | 293 | 525 | 238 | 593 | 269 | 294 | 133 | n/a | n/a |
| 10 | 250 | 177 | 80 | 769 | 349 | 865 | 392 | 717 | 325 | 807 | 366 | 399 | 181 | n/a | n/a |

| MODEL 350AST SIZE | DIMENSION (approximate) | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------------------|--------|------------------|--------|--------------------|--------|-----|-------|-----|-------|------------|--------|-------------|--------|---------------|--------|-------------------------|--------|-----|-------|-----|--------|------|
| | A | | A WITH BUTTERFLY | | B LESS GATE VALVES | | C | | D | | E NRS GATE | | E OS&Y OPEN | | E OS&Y CLOSED | | E WITH BUTTERFLY VALVES | | F | | G | | |
| | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | |
| 2 1/2 | 65 | 31 7/8 | 810 | 28 3/4 | 730 | 16 5/8 | 422 | 4 1/2 | 114 | 7 1/4 | 184 | 11 1/2 | 292 | 17 3/4 | 451 | 15 3/8 | 391 | 8 1/4 | 210 | 5 | 127 | 42 | 1067 |
| 3 | 80 | 32 7/8 | 835 | 29 3/8 | 746 | 16 5/8 | 422 | 4 1/2 | 114 | 7 1/4 | 184 | 12 3/4 | 324 | 20 1/4 | 514 | 17 | 432 | 8 1/4 | 210 | 5 | 127 | 43 1/2 | 1105 |
| 4 | 100 | 34 7/8 | 886 | 30 1/4 | 768 | 16 5/8 | 422 | 4 1/2 | 114 | 8 | 203 | 14 1/2 | 368 | 22 1/2 | 572 | 18 1/4 | 464 | 9 | 229 | 5 | 127 | 50 | 1270 |
| 6 | 150 | 43 1/2 | 1105 | 36 1/2 | 927 | 22 1/4 | 565 | 5 1/2 | 140 | 10 | 254 | 18 | 457 | 30 1/2 | 775 | 24 1/4 | 616 | 10 1/4 | 260 | 6 | 152 | 61 5/8 | 1565 |
| 8 | 200 | 52 3/4 | 1340 | 45 3/4 | 1162 | 29 1/2 | 749 | 9 1/4 | 235 | 11 | 279 | 21 1/8 | 537 | 37 | 940 | 28 1/2 | 724 | 18 1/2 | 470 | 8 3/8 | 213 | 77 1/8 | 1959 |
| 10 | 250 | 55 3/4 | 1416 | 49 3/4 | 1264 | 29 1/2 | 749 | 9 1/4 | 235 | 12 | 305 | 24 3/4 | 629 | 45 5/8 | 1159 | 34 3/4 | 883 | 18 1/2 | 470 | 8 3/8 | 213 | 85 3/8 | 2169 |

MODEL 350AST 2 1/2", 3" & 4" (STANDARD & METRIC)



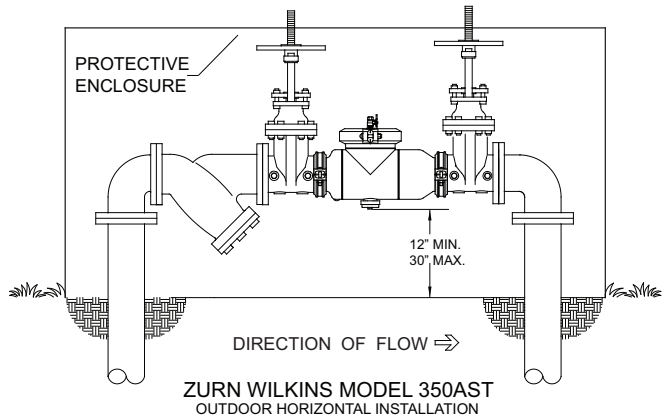
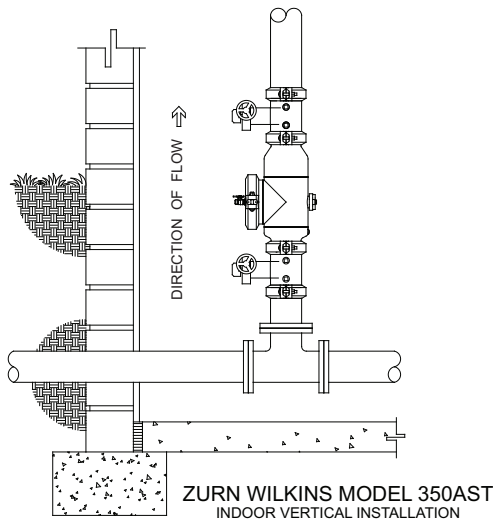
MODEL 350AST 6", 8" & 10" (STANDARDS AND METRIC)



Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

| Pipe size | Capacity thru Schedule 40 Pipe (GPM) | | | |
|-----------|--------------------------------------|------------|-----------|-----------|
| | 5 ft/sec | 7.5 ft/sec | 10 ft/sec | 15 ft/sec |
| 2 1/2" | 75 | 112 | 149 | 224 |
| 3" | 115 | 173 | 230 | 346 |
| 4" | 198 | 298 | 397 | 595 |
| 6" | 450 | 675 | 900 | 1351 |
| 8" | 780 | 1169 | 1559 | 2339 |
| 10" | 1229 | 1843 | 2458 | 3687 |
| 12" | 1763 | 2644 | 3525 | 5288 |



Specifications

The Double Check Backflow Prevention Assembly shall be certified to NSF/ANSI 372, ASSE® Listed 1015, and supplied with full port gate valves. The main body and access cover shall be 304L Stainless Steel, the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks shall be accessible for maintenance without removing the device from the line. The Double Check Backflow Prevention Assembly shall be a ZURN WILKINS Model 350AST.